

PA Coliform Kit

MS1186

Intended use

Recommended for the detection of presence or absence of coliform bacteria from drinking water, recreational water, water from distribution or treatment plants, water from domestic tanks.

Directions

Collect 100 ml water to be tested in sterile disposable bottle. Add entire quantity of powder medium (PA Broth) slowly to water by swirling to dissolve the powder completely. After dissolution, incubate the bottles at 35 - 37 C for 24 - 48 hours. Observe the colour change of the medium from reddish- purple to yellow, indicating the presence of coliform bacteria.

Type of specimen

Water samples

Specimen Collection and Handling:

For water samples, follow appropriate techniques for sample collection, processing as per guidelines and local standards.(1) After use, contaminated materials must be sterilized by autoclaving before discarding.

Performance and Evaluation

Performance of the medium is expected when used as per the direction on the label within the expiry period when stored at recommended temperature.

Quality Control:

Appearance: Light yellow to greenish yellow coloured, homogenous, free flowing powder.

Colour and Clarity of solution:

Reddish Purple coloured, clear solution, without any precipitate.

Cultural response:

Cultural characteristics observed after an incubation at 35-37°C or 25-30°C for 24-48 hours..

Organism (ATCC)	Growth	Colour of Medium
# <i>Klebsiella aerogenes</i> (13048) (00175*)	Good-luxuriant turbid	Light yellow
<i>E.scherichia coli</i> (25922) (00013*)	Good- luxuriant turbid	Yellow
<i>Enterococcus faecalis</i> (29212) (00087*)	inhibited	--
<i>Klebsiella pneumoniae</i> (13883) (00097*)	Good-luxuriant	Yellow
<i>S. serotype Typhimurium</i> (14028) (00031*)	Good-luxuriant	Turbid purple
<i>S. serotype Typhimurium</i> (23564)	Good-luxuriant	Turbid purple

Storage and Shelf Life

On receipt store between 10-30°C. Use before expiry date on the label. Product performance is best if used within stated expiry period

Disposal

Add few drops of disinfectant (Dettol, phenyl etc.) and discard the vial. Preferable to use the autoclave wherever the facility exists.

Reference

1. Baird R.B., Eaton A.D., and Rice E.W., (Eds.), 2015, Standard Methods for the Examination of Water and Wastewater, 23rd ed., APHA, Washington, D.C.



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